CLIPPEDIMAGE= JP02000284298A

PAT-NO: JP02000284298A

DOCUMENT-IDENTIFIER: JP 2000284298 A TITLE: LIQUID CRYSTAL DISPLAY DEVICE

PUBN-DATE: October 13, 2000

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APPL-NO: JP11308130

APPL-DATE: October 29, 1999

INT-CL (IPC): G02F001/1339; G02F001/13; G09F009/30

ABSTRACT:

PROBLEM TO BE SOLVED: To eliminate display chrominance

nonuniformity due to the

change of surrounding temperature in use from an ordinary temperature

atmosphere to a high temperature atmosphere.

SOLUTION: A cell gap, being thickness of a liquid crystal

layer, is designed to

gradually get thicker from the central part of the displaying

region toward the

end part of the displaying region to prevent display

chrominance nonuniformity

due to differences in thermal expansion of materials

constituting a liquid

crystal display device at the upper limit temperature of its

operational

temperature range within a range in which no display

chrominance nonuniformity

appears under ordinary temperature surroundings. Expressed

in another way, an

insulating substrate 1 has a conical shape and a pair of the

insulating

06/24/2002, EAST Version: 1.03.0002

substrates 1 is stuck together so as to place the conical projecting parts opposite to each other. As regards the liquid crystal display device formed in this way, in the case the operational surrounding temperature is raised, a difference between the cell gap of the central part of the displaying region of a liquid crystal cell 6 and that of its end part is kept small because the cell gap of the liquid crystal cell 6 is formed so as to be thin at the central part of the displaying region under ordinary temperature.

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